Course: Chromatography and Spectrometry — credits: 5

Course code	CHVP23CHROMATOGR
Name	Chromatography and Spectrometry
Study year	2025-2026
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	-
Modes of delivery	Assignment Lecture Practical / Training
Assessments	Chromatografie en Spectrometrie Theorie - Written, organised by STAD examinations Practicum - Other assessment

Learning outcomes

You apply Lambert-Beer's law in practical and in theoretical cases and name the limitations of Lambert-Beer's law.
- You describe the absorption process of electromagnetic radiation in molecules and atoms.
- You describe the basic principles of chromatography.
- You calculate separation parameters from a chromatogram.
- You describe and explain the effect of polarity of the stationary, mobile phase and analyte.
- You name and describe the components of spectroscopic and chromatographic systems.
- You apply the acquired theoretical knowledge about chromatography and spectrometry in an independent, safe and responsible way while performing a simple experiment, and communicate about this with a logbook and/or results form according to the applicable guidelines.

DAS competencies

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	
Management	
Advise	
Instruction	
Leadership	
Self-management	I

Content

This module focuses on spectroscopy and chromatography. You apply theory during a practical using UV-VIS spectroscopy, AES, HPLC and GC. Practical work is assessed through logbooks, results forms and practical competences, among other things. Theory is taught through instructional lectures.

Included in programme(s)

Chemistry

School(s)

Institute for Life Science & Technology

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